

FIG. 1
(PRIOR ART)

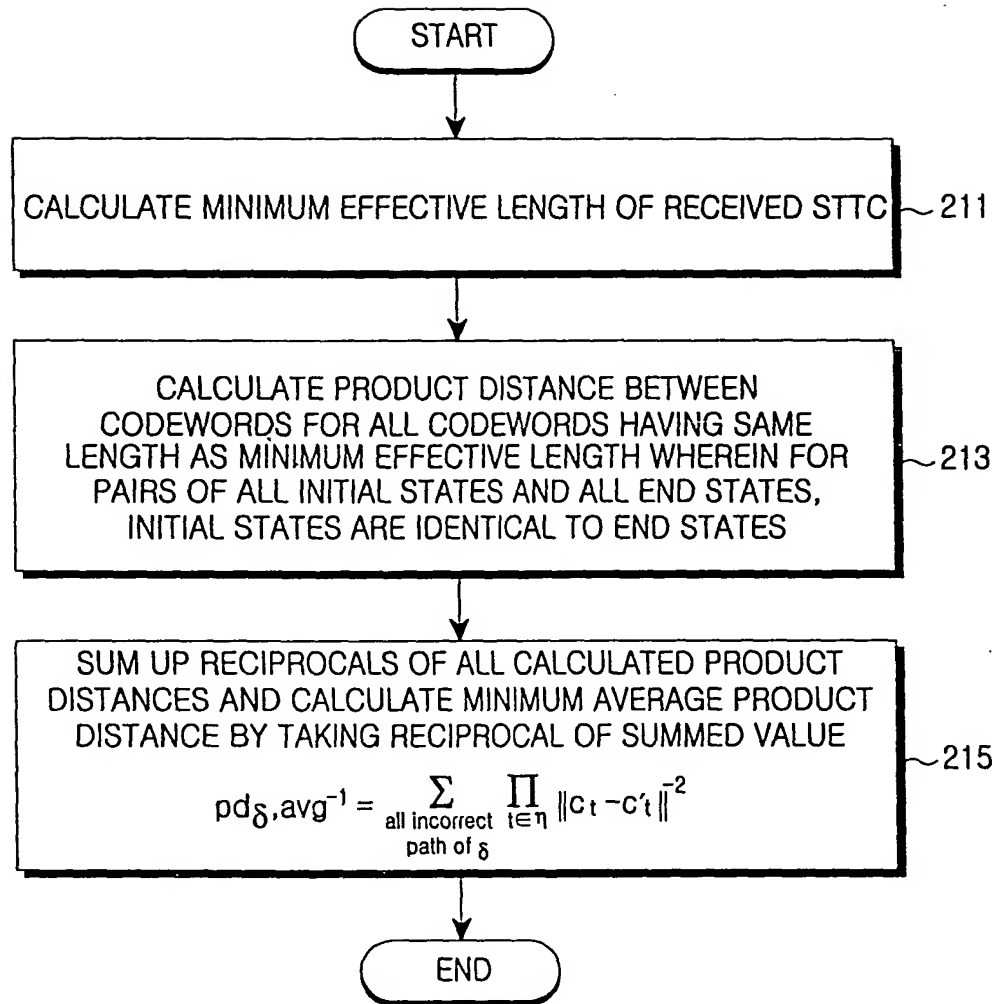


FIG.2

Code	δ_{\min}	pd_{\min}	$pd_{\min,avg}$	Coding gain over Tarokh
Tarokh	2	4	1.77	0 dB
Firmanto	2	24	8.73	3.47 dB
Ungerboeck with STBC	2	16	16.00	4.78 dB
Divsalar with STBC	4	16	7.76	-

FIG.3

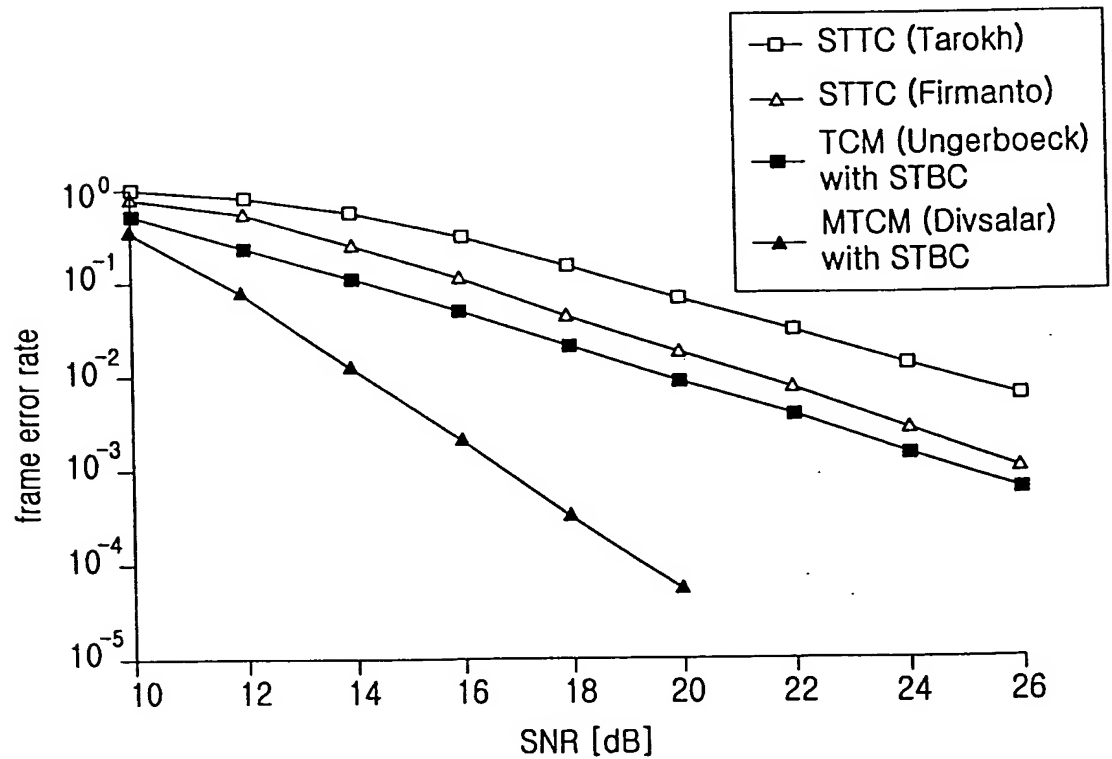
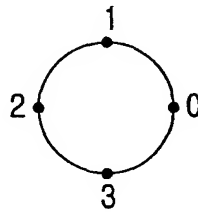
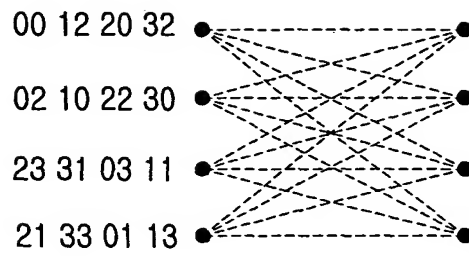


FIG.4

4state



4-PSK Constellation

FIG.5

8state

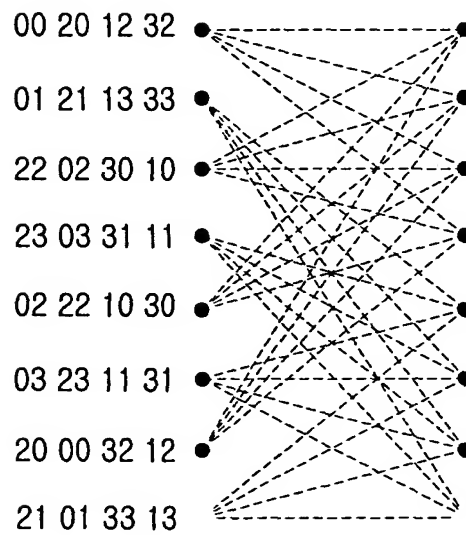


FIG.6

16state

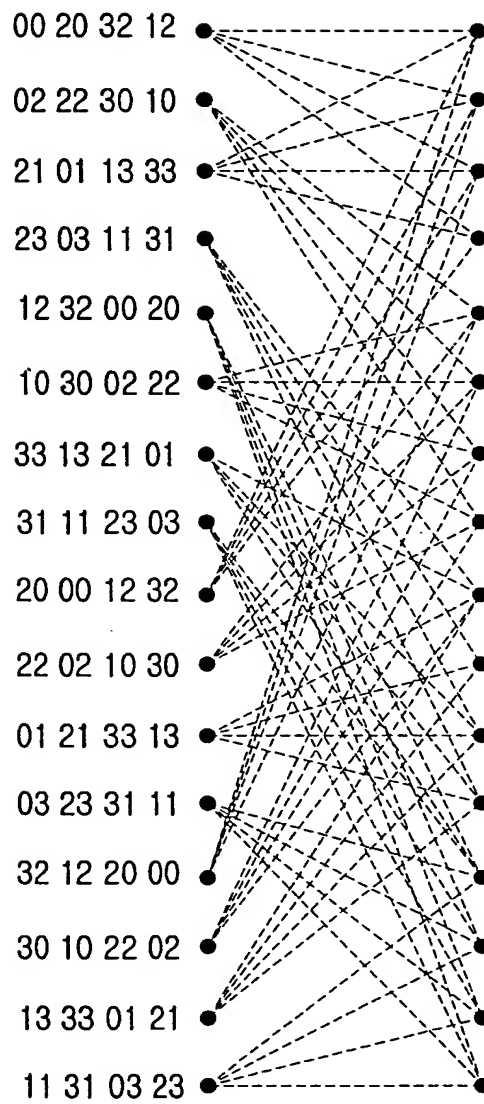


FIG.7

STTC		Effective length	Minimum product distance	Minimum average product distance
4-STATE	Tarokh	2	4	1.77
	Firmanto	2	24	8.73
	INVENTION	2	24	9
8-STATE	Tarokh	2	16	16
	Firmanto	2	48	48
	INVENTION	2	48	48
16-STATE	Tarokh	3	16	2.67
	Firmanto	3	64	7.38
	INVENTION	3	64	11.37

FIG.8

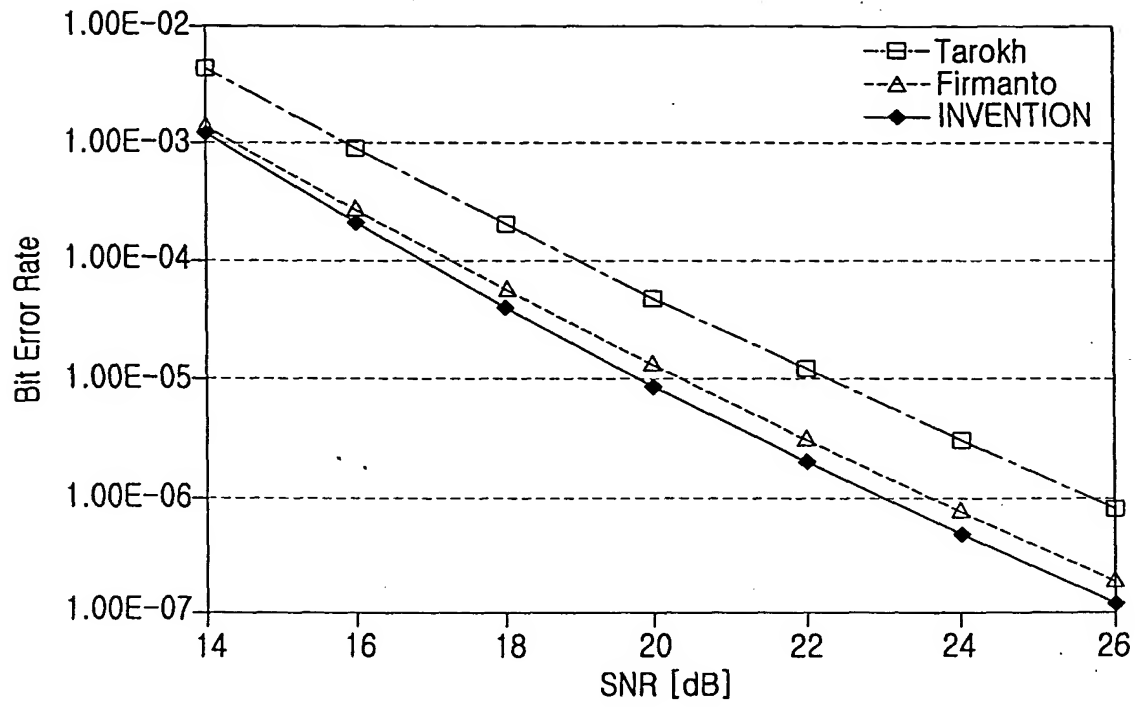


FIG.9